

CUSTOMIZED SOLUTIONS

MANUFACTURED IN THE NETHERLANDS

 **HP WELL SCREEN**

POROLOCK SHIELD

- Superior Erosion resistance
- Unique Shielded Direct wrap Metal mesh
- Increased diverted flow area
- Perforated Base Pipe
- Distributed ICD design

**EROSION
IMPROVEMENT
300%**

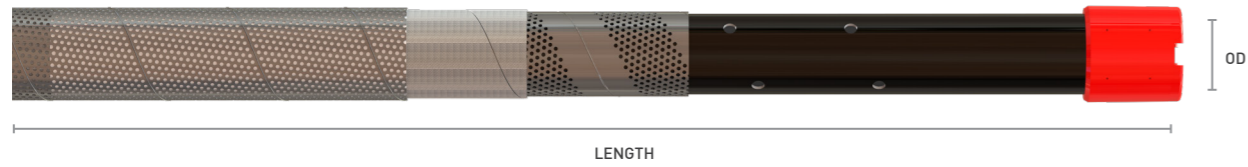
 **HP WELL SCREEN**

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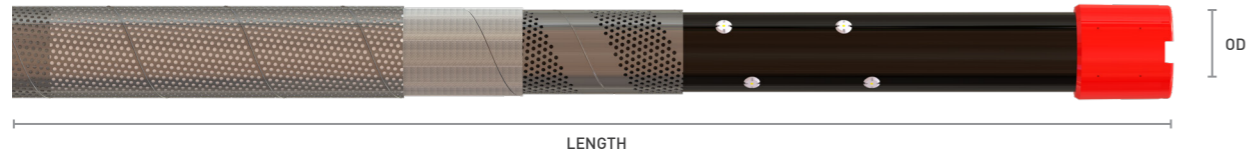
www.hpwellscreen.com

PoroLock Shield



- 300% increased erosion resistance by reducing flow velocities
- Tailored shield sections to match base pipe perforation design
- Unique direct wrapping of all layers with integrated inner shield
- PoroLock's superior sand control and mechanical strength

PoroLock Shield ICD

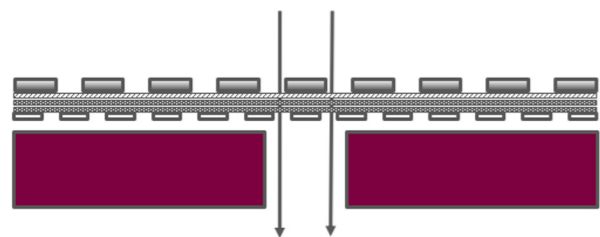
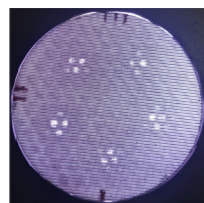


- 300% increased erosion resistance by reducing flow velocities
- Engineered shield sections protecting screen from high flow rates through ICD's
- Unique direct wrapping of all layers with integrated inner shield
- PoroLock's superior sand control and mechanical strength

Avoiding direct line-of sight flow

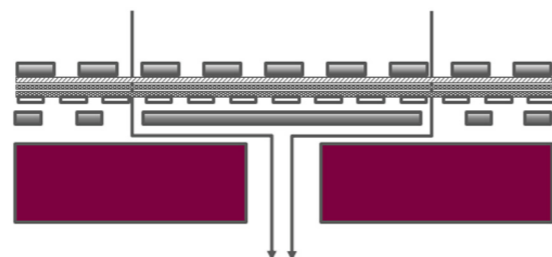
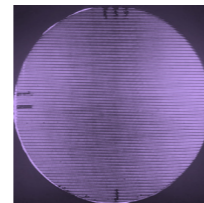
Regular screen

Erosion after 24 hr



PoroLock Shield

No erosion after 96 hr



When to use the PoroLock Shield?

- High rate horizontal gas wells
- Horizontal Wells with consolidated or partial consolidated reservoirs
- Horizontal Wells with shallow or depleted reservoirs where GP is not possible

ER Weave OPTION

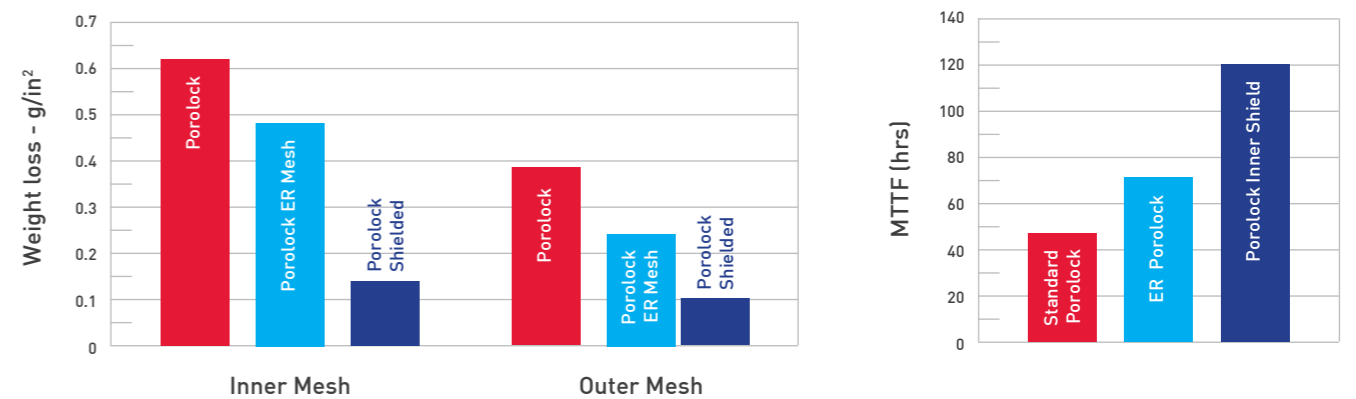
Erosion resistant weave

- Dutch weave
- Surface hardness >1200 HV
- Wire core hardness < 250 HV
- No pore size change
- No effect on ductility
- No peeling/delamination



30% improvement in erosion resistance

Erosion Resistance Comparison



Conclusion →

**EROSION
IMPROVEMENT
300%**